FILYANSKAYA, Yelena Dmitriyevna; KOZLYAYEVA, Tat'yana Nikolayevna;
VOROKHOBIN, Ivan Grigor'yevich; DENISOVA, I.S., red.;
SHADRINA, N.D., tekhn.red.

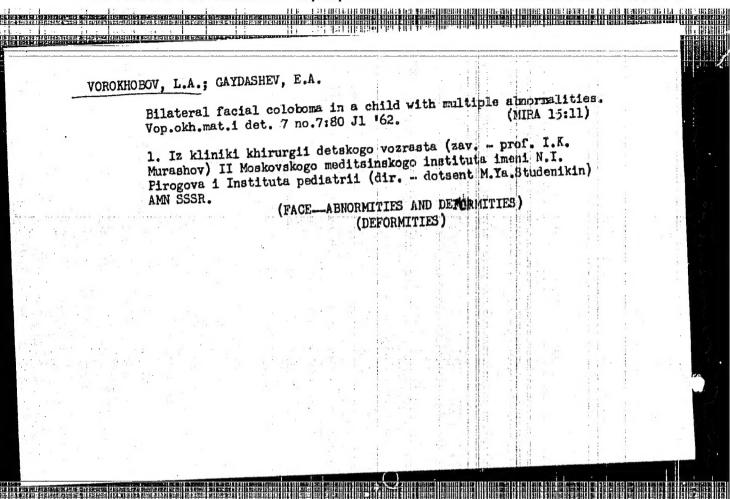
[Linear colorimetric method of analyzing harmful gases and vapors in the atmosphere of industrial enterprises] Lineino-koloristicheskii metod analiza vrednykh gazov i parov v vozdukhe promyshlennykh predprilatii. Noskva, Izd-vo VTsSPS
Profizdat, 1958. 111 p.

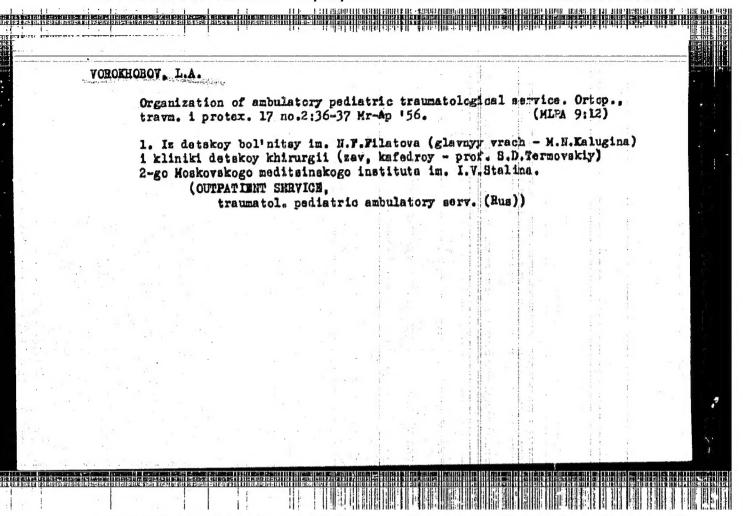
(Gases--Analysis) (Colorimetry)

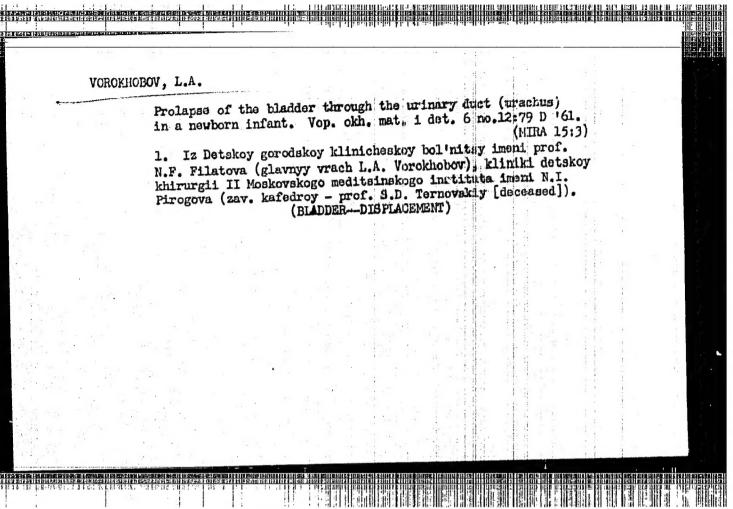
ARENDT, A.A., prof.; ARTARYAN, A.A., kand.med.nauk; BAIROV, G.A., prof.; VOLKOV, M.V., prof.; VARSHAVSKAYA, D.Ya., kand, med. nauk; VOROKHOBOV, L.A.; GENERALOV, A.I., kard. med. nauk; DANIYEL BEK, K.V., kand. med. nauk; DERZHAVIN, V.M., kand. med. nauk; DOLETSKIY, S.Ya., prof.; YERMOLIN, V.N.; ZATSEPIN, S.T., kand. med. nauk; ZVYAGINTSEV, A.Ye., dots.; ISAKOV, Yu.F., doktor med. nauk; KOZYREV, V.A., kand. med. nauk; KONOVALOV, A.N.; KORNYANSKIY, G.P., prof.; KLIMANSKIY, V.A., kand., med. nauk; KLIMKOVICH, I.G., dots.; KONDRASHIN, N.I., kand. med. nauk LEVINA, O.Ya., kand. med. nauk; LENYUSHKIN, A.I., kand. med. nauk; LEYBZON, N.D., doktor med. nauk; MALININA, L.I., doktor med. nauk; MAREYEVA, T.G., kandidat meditsinakikh nauk; NERSESYANTS, S.I., kand. med. nauk; OVCHINNIKOV, A.A.; OGLEZNEV, K.Ya., kand. med. nauk; ROSTOTSKAYA, V.I., kand, med. nauk; STEPANOV, E.A., kand. med. nauk; EPSHTEYN, P.V.; OSTROVERKHOV, G.Ye., prof., glav. red.; DOMBROVSKAYA, Yu.F., prof., otv. red.

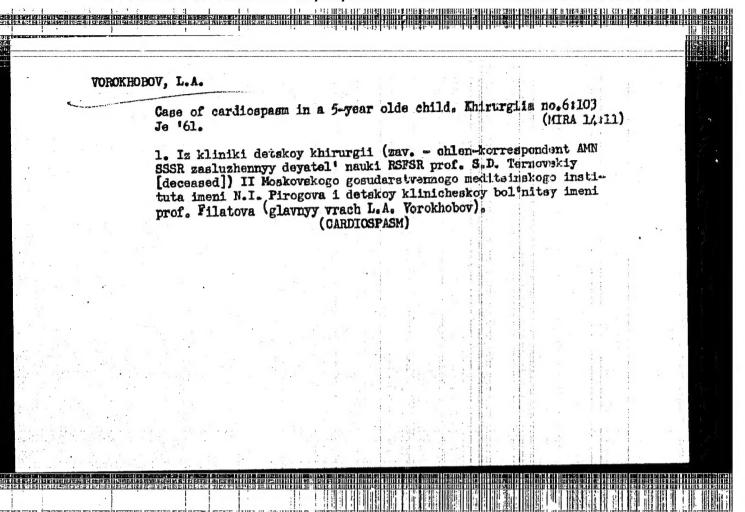
[Multivolume manual on pediatrics]Mnogotomnoe rukovodstvo po pediatrii. Moskva, Meditsina. Vol.9.[Pediatric surgery] Khirurgiia detskogo vozrasta. Red. toma S.IA.Doletskii. 1964. 654 p. (MIRA 17:9)

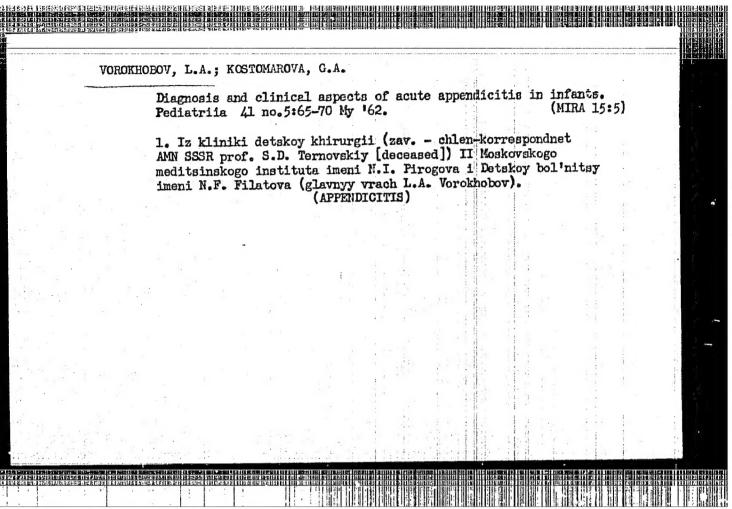
1. Deystvitel'nyy chlen AMN SSSR (for Dombrovekaya). 2. Chlenkorrespondent AMN SSSR (for Bairov, Volkov).

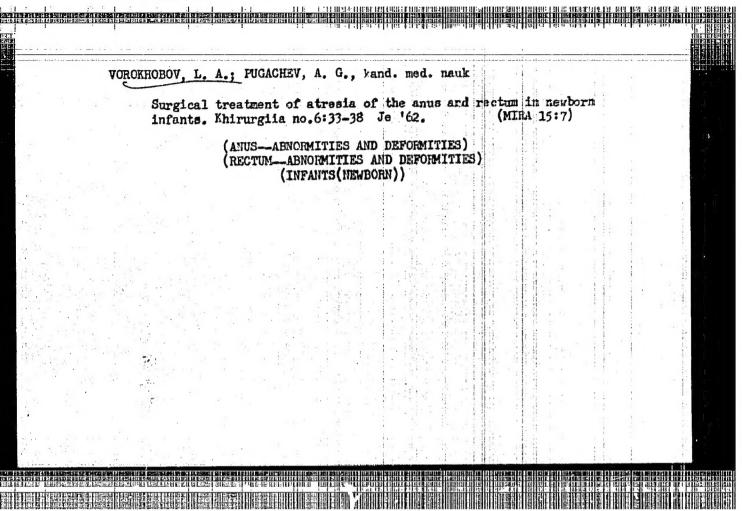












VERSILOVA, E.B.; VOROKHOBOV, L.A.; DERZHAVIN, V.M. (Hoskva, Zh-384, Moskovekaya ul. 120, kv.8)

Treatment of cryptorchism in children. Vest. khir. 92 no.4: 117-120 åp '64

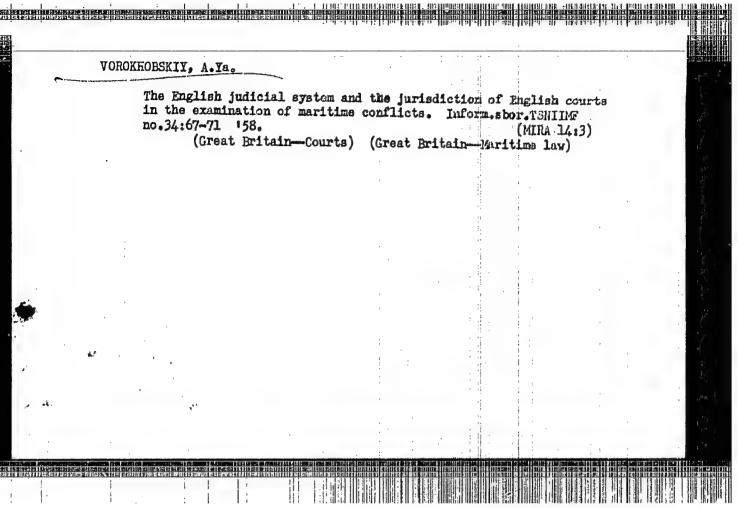
1. Iz kliniki detskoy khirurgii (zav. - prof. T.K. hurashov)
2-go Moskovskogo meditsinskogo instituta inemi N.I. Firogov-(rektor - doktor med. nauk N.G. Sirotkina) pri detskoy bol - nitse imeni N.F. Filatova (glavnyy vrach - L.A. Vorokhobov).

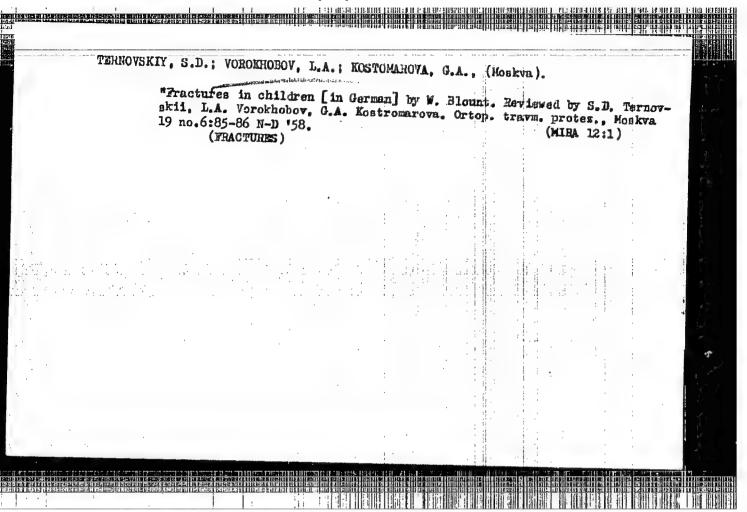
VOROKHORSKIY, A., mladshiy nauchnyy sotrudnik; MAKSIMARZHI, M.,
mladshiy nauchnyy sotrudnik

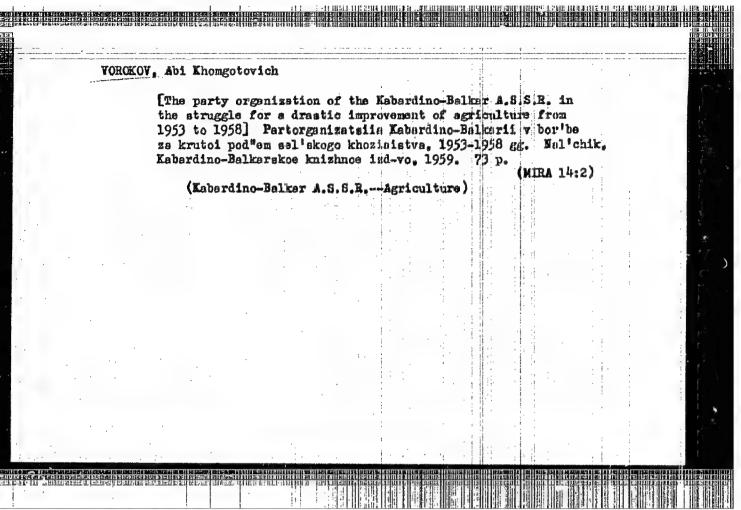
Merchant fleet of South American countries. Mor.flot 20 no.1:
38-39 Ja '60. (MIRA 13:5)

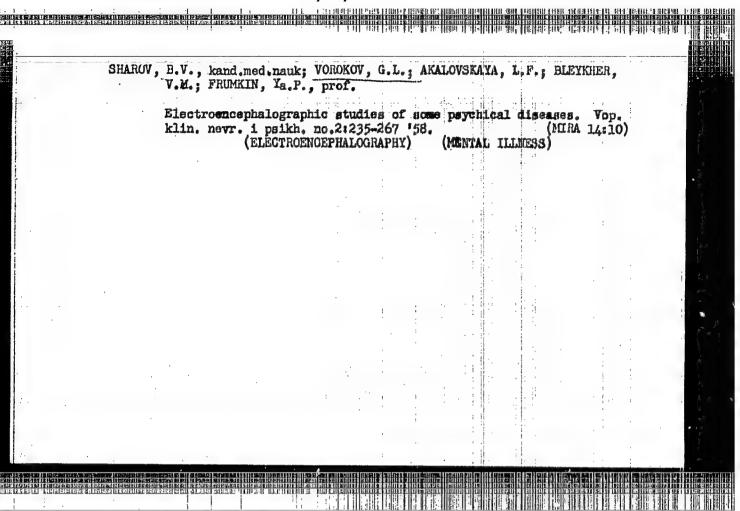
1. TSentral'nyy nauchno-iseledovatel'skiy institut morskogo flota.

(latin America--Merchant merine)









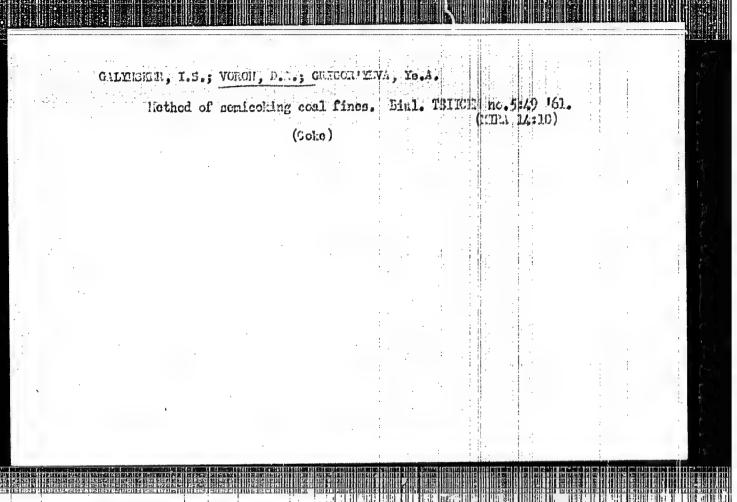
SHIKANOVA, I.A.; KORCHAGIN, M.V.; VOROKHOVA, L.A.

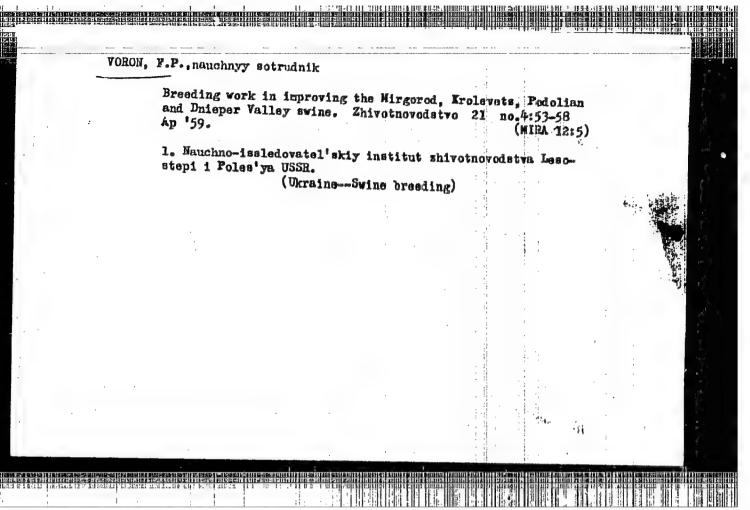
Feeding of the dye baths in the continuous method of dyeing woolen fabrics with acid dyes. Tekst.prom. 22 no.9:11-14 S '62. (MIRA 15:9)

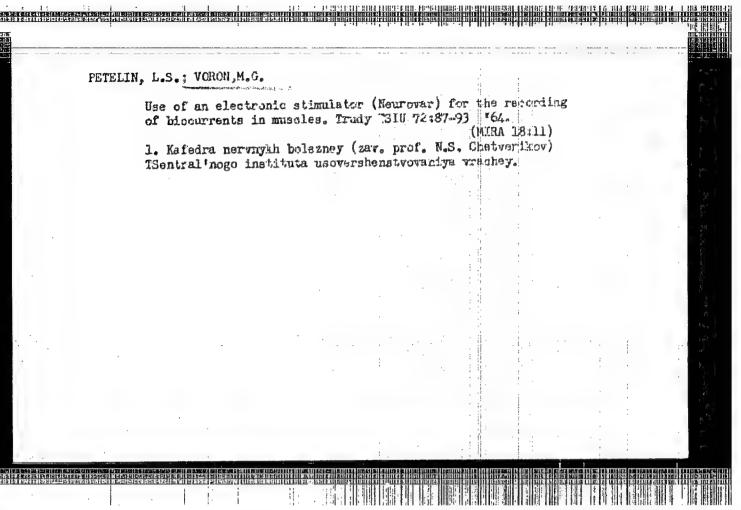
1. Sotrudniki Moskovskogo tekstil'nogo instituta (for Shikanova, Korchagin). 2. Moskovskiy tekstil'nyy institut (for Vorokhova). (Dyes and dyeing—Wool)

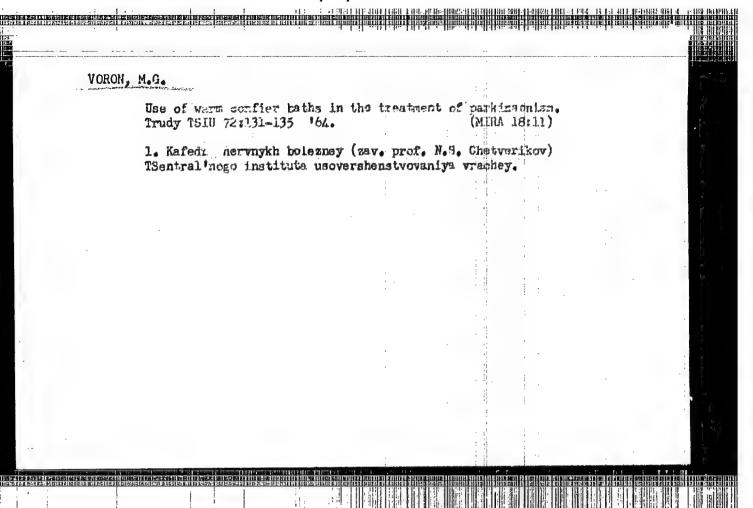
APPROVED FOR RELEASE: 03/20/2001 CIA

CTA-RDP86-00513R001860910004-2"







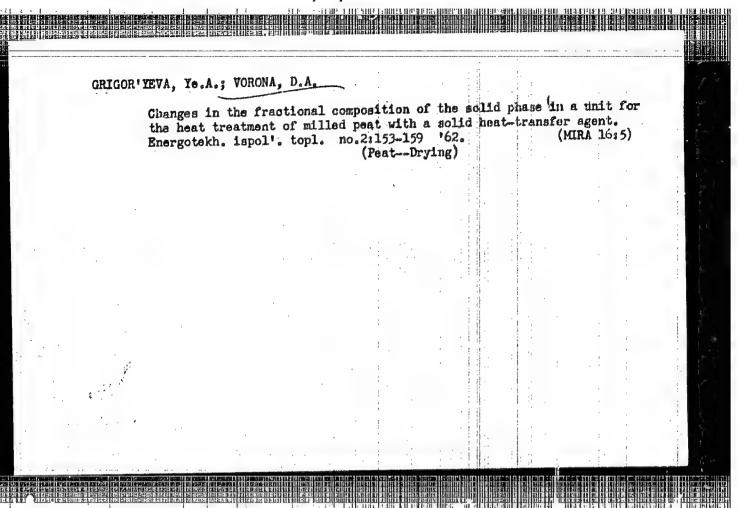


MORAVSKIY, V.E.; SEMERGEYEV, S.I.; VORONA, D.S.

Duplex condenser discharge welding of silver alloy wire contacts. Avtom. svar. 18 no.8162-65 Ag 165.

(HIRA 18:11)

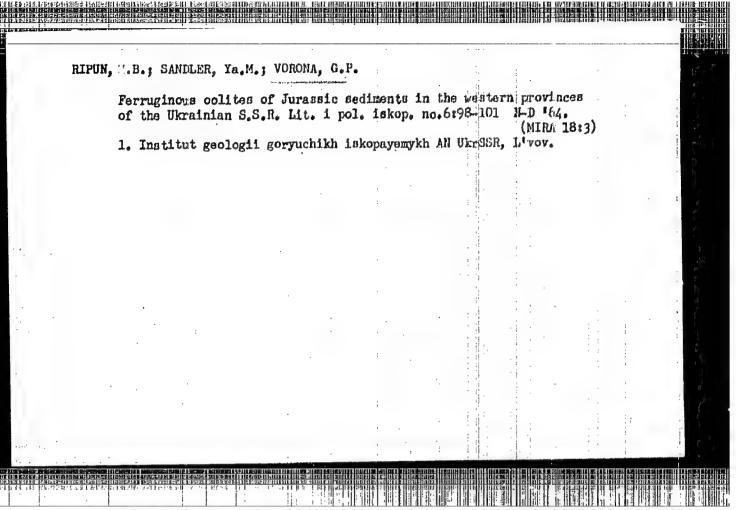
1. Institut elektrosvarki imeni Patona AN UkrSSR. Sutmitted December 26, 1964.

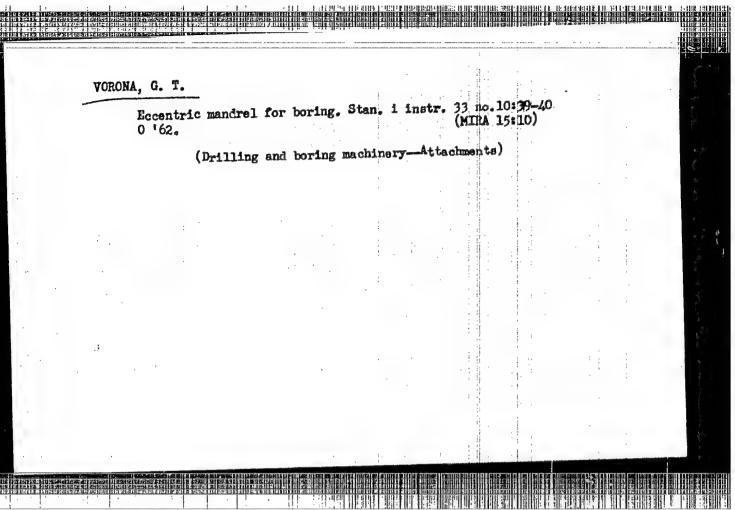


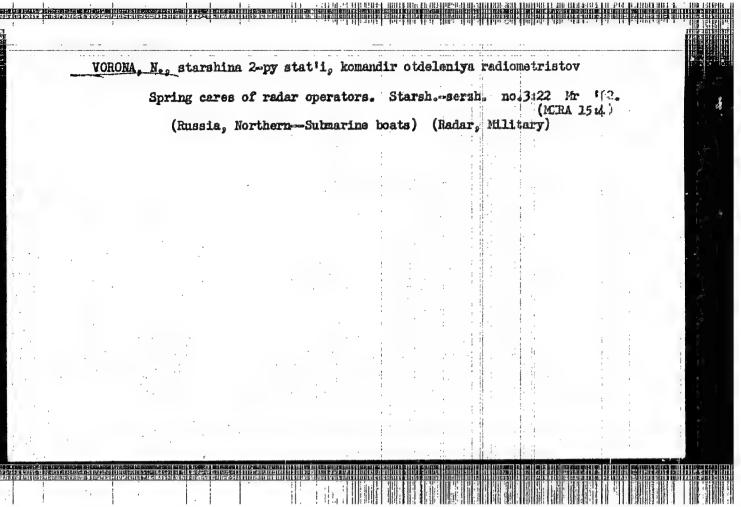
MORAVSKIY, V.E.; SEMERGEYEV, S.I.; VORONA, D.S.

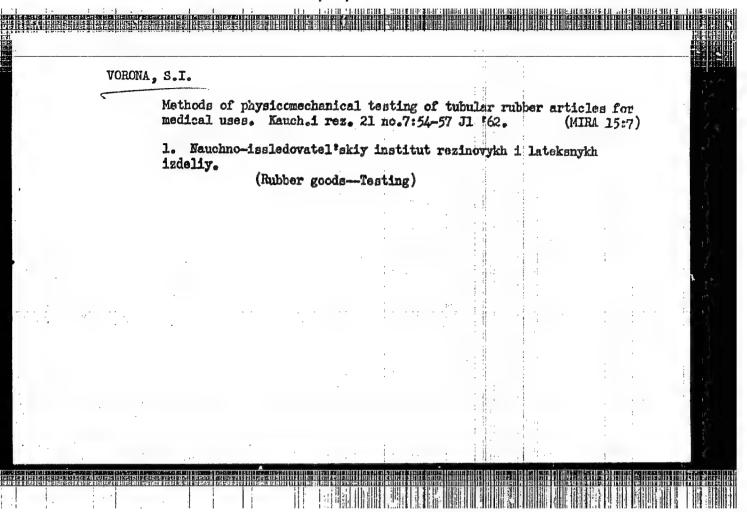
The THM-11 duplex spot condenser discharge welder for welding longitudinal silver contacts. Avtom. svar. 17 no.12:68-71 D 164 (MIRA 18:2)

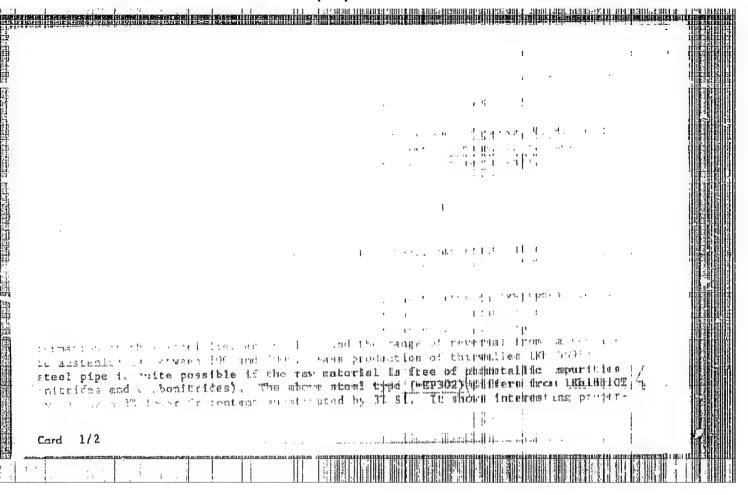
1. Institut elektrosvarki im. Ye.O.Patona AN UKKSSR.

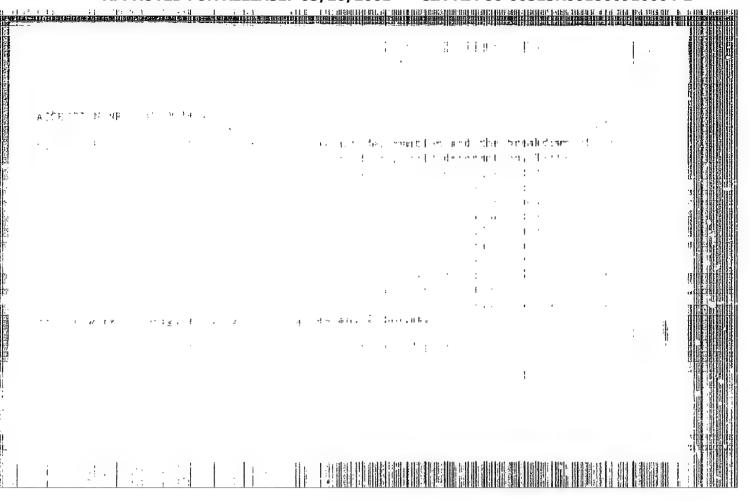


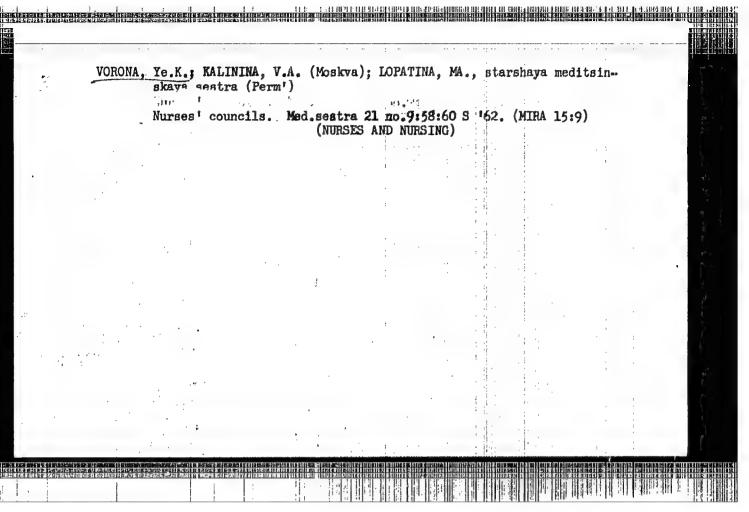












8/0000/63/003/001/0081/0083

ACCESSION NR: AT4019289

AUTHOR: Vertsner, V. N.; Vorona, Yu.M.; Zhdanov, G. S.

AUTHOR: Vertsner, V. N.; Volona, Ichin, Tritle: Use of the EM-7 electron microscope for the investigation of crystal lattices and observation of dislocations

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy\*p.1. Katalizirovannaya kristallizatsiya stekla (Vitreous state, no.1: Catalyzing crystallization of glass). Trudy\* simpoziuma, v.3, no.1. Moscow, Izd-vo AN SSSR, 1963, 81-83 insert page between p. 80 and 81

TOPIC TAGS: glass, lattice structure, electron microscopy, dislocations, lattice dislocation, crystal lattice, copper phthalocyanin

ABSTRACT: The interlayer spacings were measured and dislocations were observed in copper phthalocyanin crystals by means of an EM-7 electron microscope in which the resolution was increased to 10 Å. Increasing the excitation of the objective to 4000 ampere-turns considerably decreased astigmatism, and spherical and chromatic aberrations. The electron microscope was used at 60 kV with a diaphragm 30-micross in diameter, at a beam current of 20 microsmperes. Magnification

Card 1/2

ACCESSION NR: AT4019289

(electronic plus photographic) was 53,000 to 1,200,000 X, exposure time 8-10 sec. The conditions of the preparation and testing of the crystals are described. The small lattice spacings in one crystal with a period of 12.6 R were resolved on 50% under the electron microscope. Pictures of crystals or crystal sections with photoplate of the crystal face (001) formed by copper phthalocyanin. Usually, the crystal faces were parallel to the edge of the crystal and had a perfect structure. At an angle of 150. The microphotograph of a bent crystal is also illustrated.

PRESENTANTE PROPERTY OF THE PR

ASSOCIATION: None

SUBMITTED: 17May63

DATE ACQ: 21Nov63

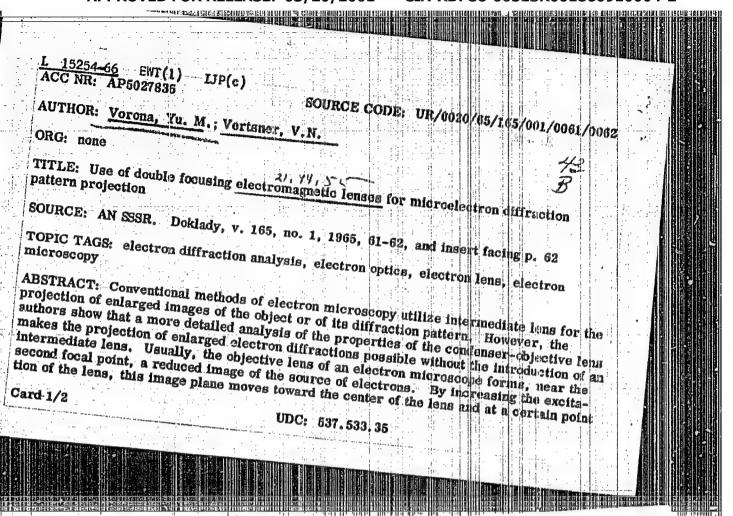
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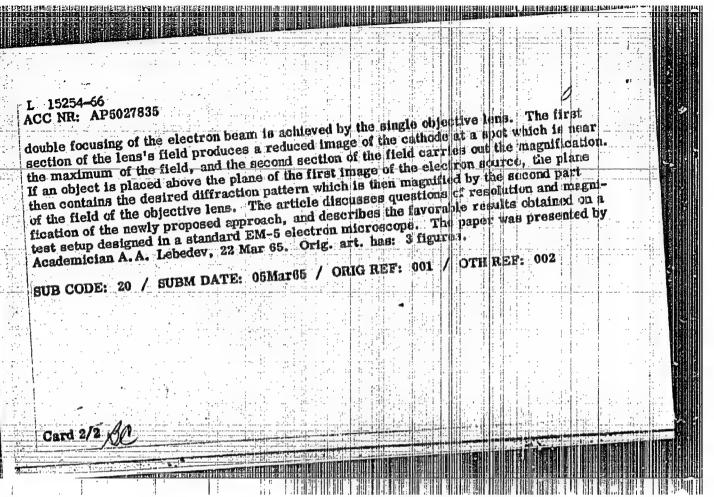
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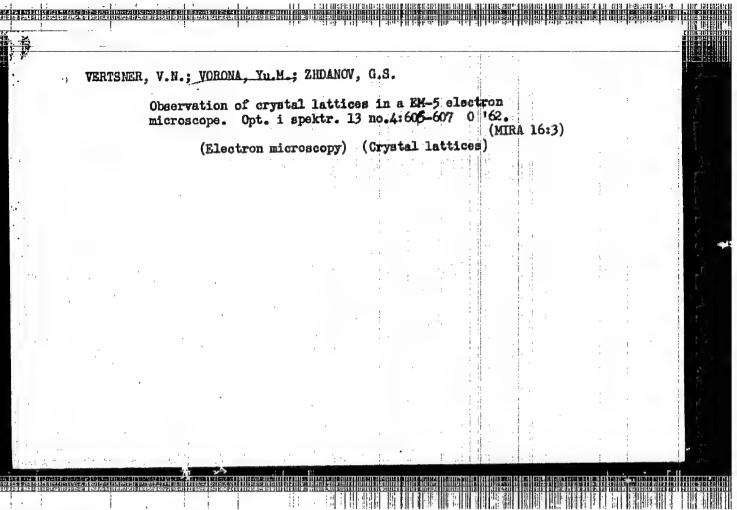
Card 2/2

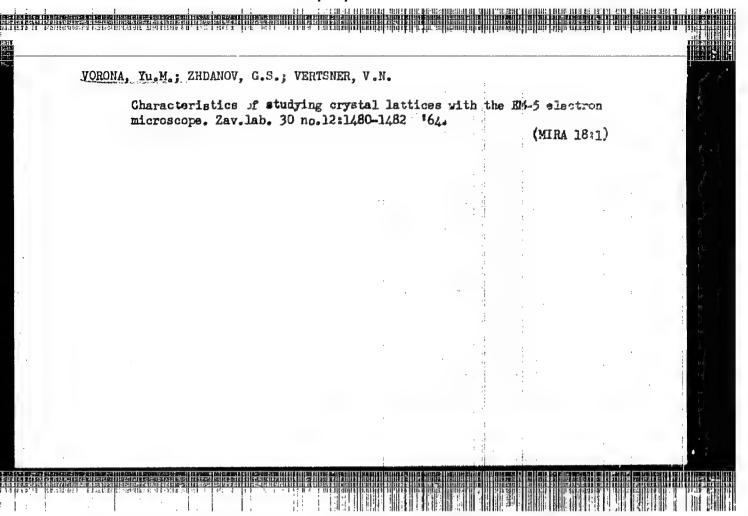


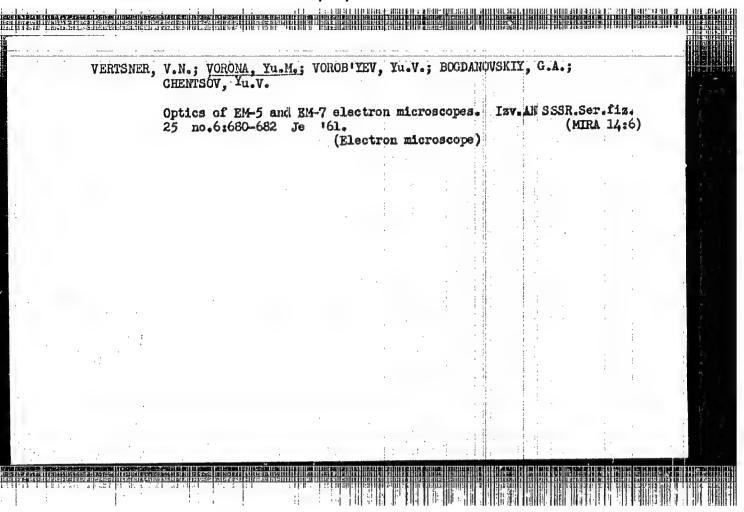
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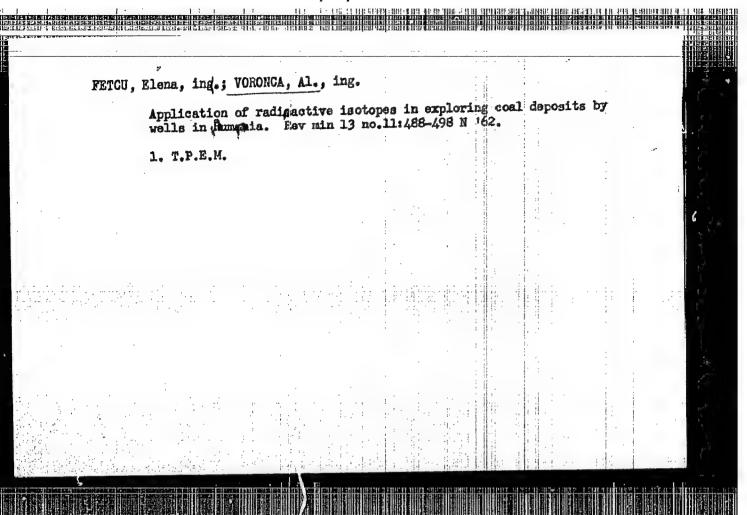


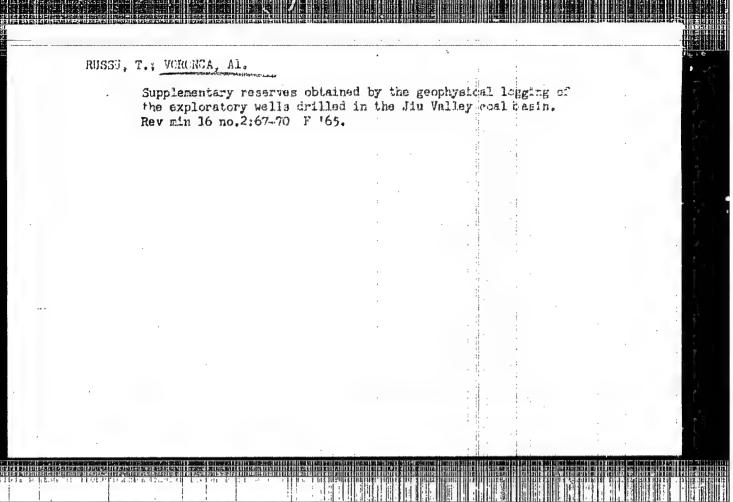
The second secon











GUTCUDACHE, C., dr.; CORUN, V., dr.; COSTESCU, M., dr.; VORONCA, G., biolog

Considerations on the use of thromboelastography in clinical medicine. Med. intern. 15 no.10:1265-1274. \*63.

1. Lucrare efectuata in Spitalul clinic "Fundeni".

(BLOOD COAGULATION DISORDERS)

(THROMBOELASTOGRAPHY) (HAMMACOLOGY)

(THROMBOFENIA) (ANTICOAGULANTS)

(ANEMIA, SPIENIC) (HEMOPHILIA)

(LIVER CIRRHOSIS)

YORONEHLY, A.I.

AID Nr. 975-5 23 May

RADIO SOUNDING OF PLASMA MOVING AGAINST ELECTRODYNAMIC ACCELERATION IN A COAXIAL ACCELERATOR (USSR)

Brodskiy, V. B., Ye. M. Belitskiy, A. T. Voronchev, N. V. Konyakhin, and Yu. N. Starostin. Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, \$\, \frac{426-33}{5/057/63/033/004/010/021}\$

The relationship existing in a plasma between number of charged particles ejected both in and against the direction of electrodynamic acceleration has been evaluated to analyze processes occurring in a coaxial accelerator. A method is described for using two different wavelengths ( $\lambda_1$ = 0.8 cm and  $\lambda_2$ = 3 cm) simultaneously, by which the relationship between these quantities can be obtained. It was found that a plasmoid with a concentration of at least  $n_1 > 10^{13}$  electrons/cm³ was moving in the direction of electrodynamic acceleration. The time it took for the plasmoid to cross the beam was

Card 1/2

APPROVED FOR RELEASE: 03/20/2001

AID Nr. 975-5 23 May

RADIO SOUNDING OF FLASMA [Cont'd]

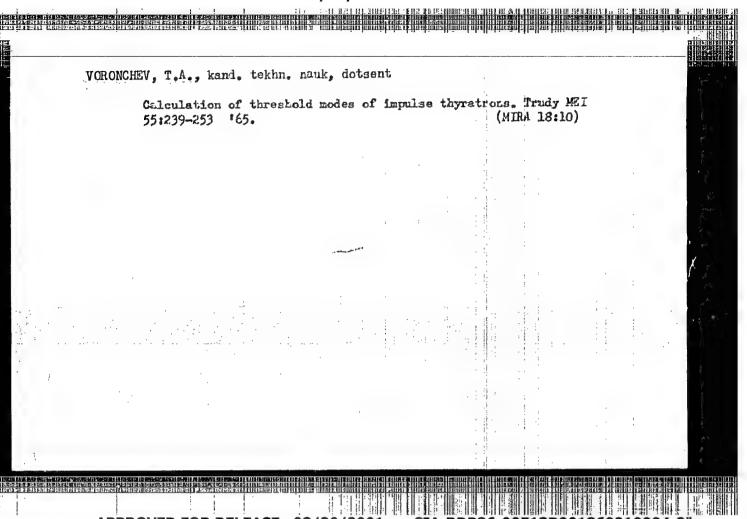
8/057/63/033/004/010/021

 $\tau_1$  = 80 μsec. A plasmoid with a concentration  $n_2$  =  $10^{12}$  electrons/cm<sup>3</sup> was moving in the reverse direction. Its time of crossing was  $\tau_2$  = 40 μsec. Velocities of the plasmoid fronts moving in the direction of electrodynamic acceleration and against it were  $V_1$  =  $10^7$  cm/sec and  $V_2$  =  $4 \cdot 10^6$  cm/sec, respectively. Consequently, the relationship between the quantity of charged particles in plasmoids has the following form:

 $\frac{V_{2}n_{2}\tau_{2}}{V_{1}n_{1}\tau_{1}} < 0.02$ 

KM]

Card 2/2



SOKOLOV, V.D.; podpolkovnik; VORONCHIKHIN, D.A., gvardii polkovnik, redaktor;

SOROKIN, V.V., tekhnicheskiy redaktor

[The vanguard; sketches of officer specialists in education and training] Idushchic vperedi; ocherki ob ofitserakh-masterakh obucheniia i vespitantis. Moskva, Voen. 12d-vo Hinisterstva obor.

SSSR, 1955. 118 p. [Microfilm] (NLRA 9:11)

(Military education)

MEL'HIKOV, D.; CHERNAYA, L.; VORONCHIKHIN, D.A., gvardii polkovnik, redaktor; SOKOLOVA, G.Provedimite and for revenged ditler creation generals are getting ready for revenged ditler creation generaly gotoviate a revenshu. Hoskva, Voennee, ind-vc 'inisterstva obornoy Soiusa Sir, 1954. 156 p. [Microfilm] (MLA: 7:10) (Germany, Western—Defenses) (Hational socialism)

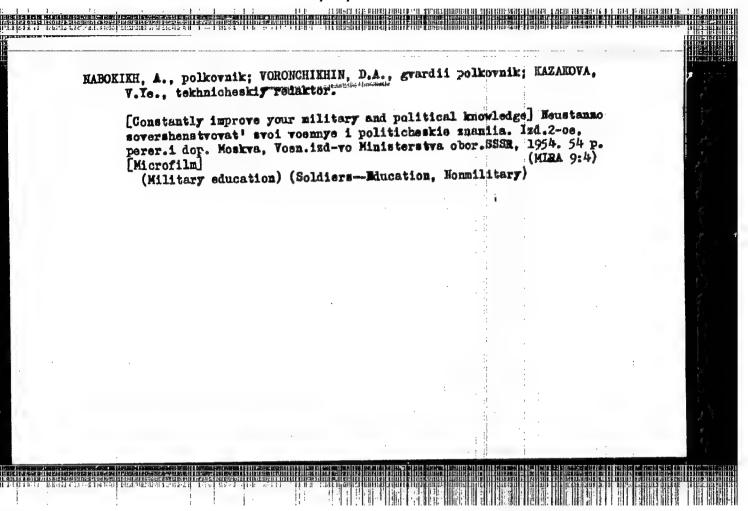
CHERTANOV, Arkadiy Alekseyevich; VORONCHIKHIN, D.A., gvardii polkovnik, redaktor; RAKZIN, M.M., pozovnik, redektor; Solomenik, P.L., tekhnicheskiy redaktor

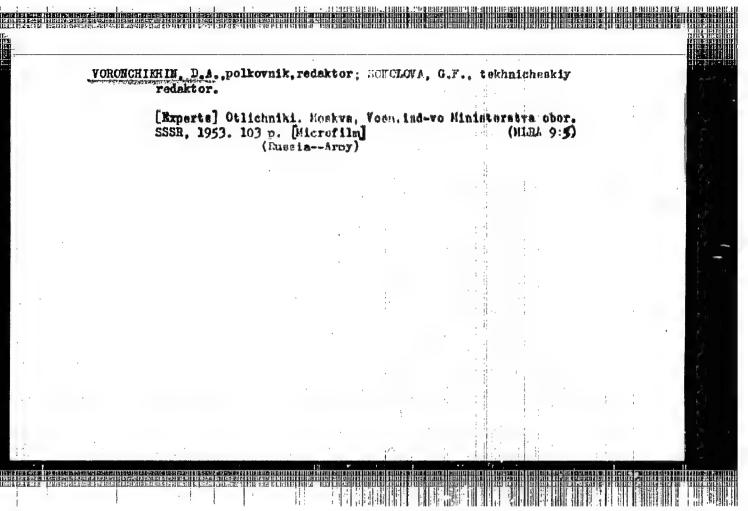
[When attacking, keep abreast of the advance elements] V atake ravniatista po perednim. Moskva, Voen. ind-vo Ministerstva obor.

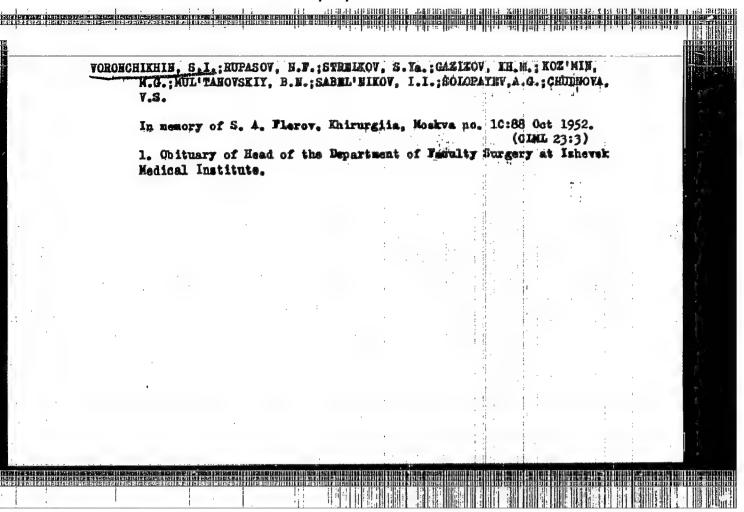
SSSE, 1956. 44 p.

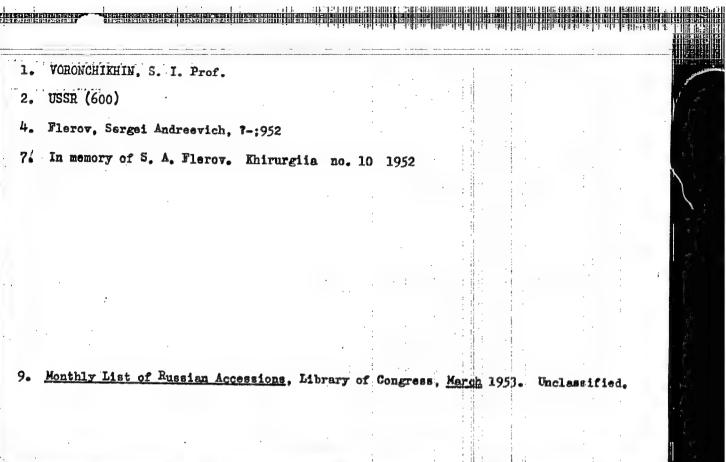
(MIRA 9:8)

(Infantry drill and tactics)









GUBERCRITS, A.Ya., prof., zasl. deyatel nauki Udmurtskoy Avtonomoy

SSR; otv. red.; VORONCHINEIN, S.T., zasl. deyatel nauki

Udmurtskoy Avtonomoy SSR, red.; GAZIZOV, A.M., red.; ZARAYSKAYA,

A.A., red.; MAMAYEV, A.H.; red.; ORESHKOV; L.M.; gazel. vrach Udmurtskoy

Avtonomoy SSR, red.; ODEYAHOV, G.A., red.; BUPASOV, N.F.,

red.; SOMOVA, V.I., red.; KOREPANOVA, L.V., red.; MASHADATOV,

V.F., kand. med. nauk, red.; VORONTSOVA, Z.Z., tekhn. red.

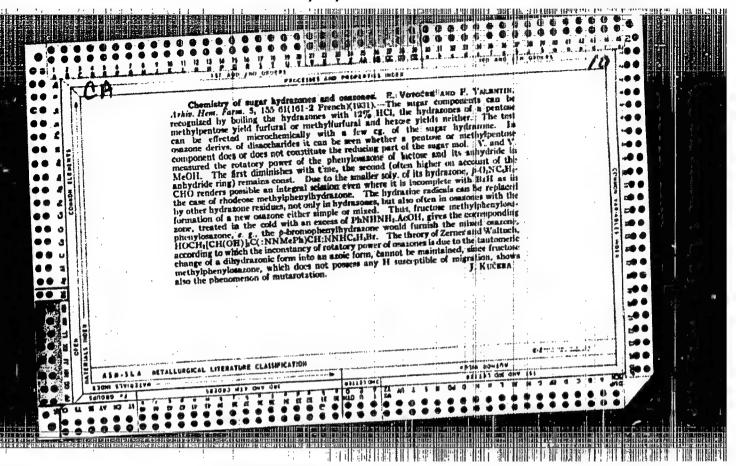
[Problems in the pathology of the biliary tract; collected scientific works of the First Republic Clinical Hospital] Voprosy patologii zhelchnykh putei; sbornik nauchnykh trudov 1-1 Respublikanskoi klinicheskoi bol'nitsy. Izhevsk, Udmirtskoe knizhnoe izd-vo, 1960. 222 p. (MIRA 15:3)

1. Zaveduyushchiy terapevticheskimi klinikami Izhevskogo meditsinskogo instituta (for Gubergrits). 2. Terapevticheskaya klinika Izhevskogo meditsinskogo instituta (for Oreshkov, Mashagatov). 3. Zaveduyushchiy fakul'tetom khirurgicheskoy kliniki Izhevskogo meditsinskogo instituta 1-oy Respublikanskoy klinicheskoy bol'nitsy Ministerstva zdravookhraneniya Udmurtskoy Artonomoy SSR (for Voronchikhin). 4. Fakul'tet khirurgicheskoy kliniki Izhevskogo meditsinskogo instituta 1-oy Respublikanskoy klinicheskoy bol'nitsy Ministerstva zdravookhraneniya Udmurtskoy Artonomoy SSR (for Odiyankov).

(BILIARY TRACT—DISRASES)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001860910004-2"

1. VORONCHUKHIN, S. I.	., Prof. and o	thers.			:		
2. USSR (600)					1 1 2		
4. Surgeons		•			1		
7. In memory of S. A.	Flerov. Khiru	orgiia no.	10, 19	52.			
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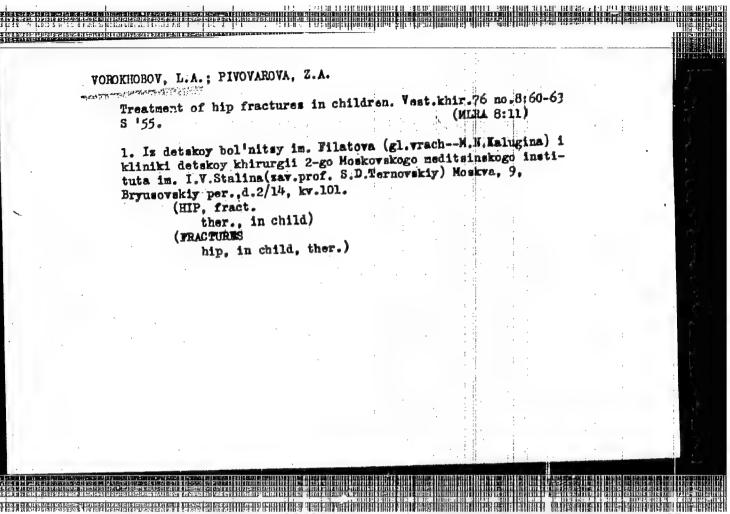
ZYYAGINTSEY, A.Ye., dotsent; VOROKHOBOV, L.A.

Intravenous and intracessous anesthesia with tourniquet in children; Knirurgiia no.3:45-49 Mr '54, (MEMA 7:5)

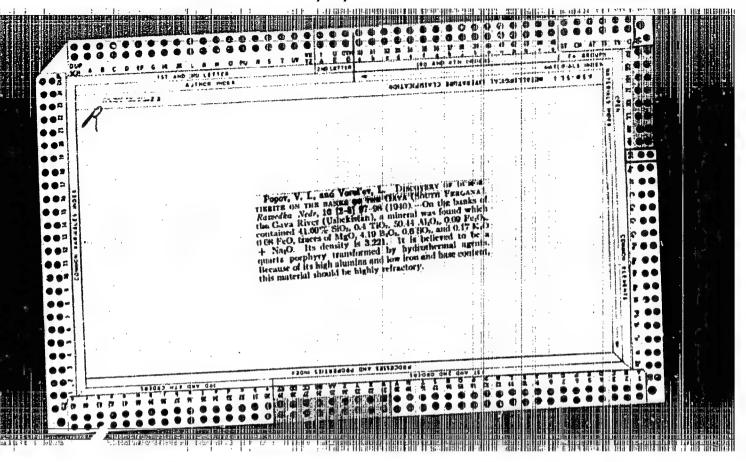
1. Ix kliniki detskoy khirurgii II Moskovskogo meditsinskogo instituta im. I.V.Stalina (zevednyushchiy kadedroy, professor 8.D. Ternovskiy) na base detskoy bol'nitsy im. H.F.Filatova (glavnyy vrach M.H.Kalugina)

(ANESTHESIA, IOCAL, intracessous with tourniquet in child)

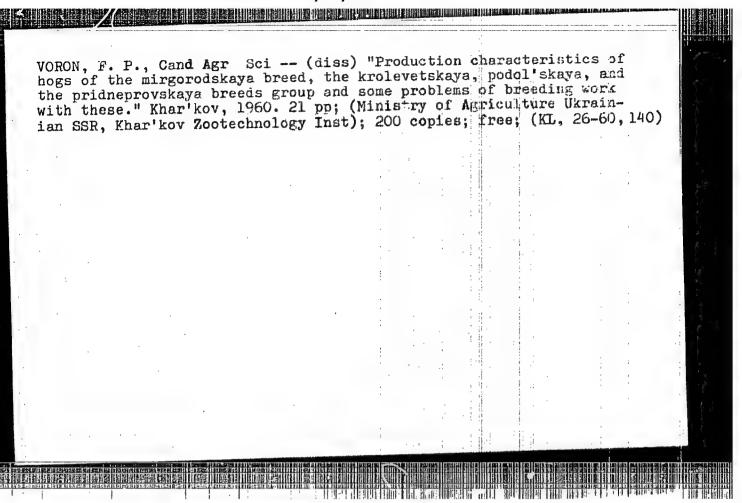
(ANESTHESIA, INTRATEMOUS, in child., with tourniquet)



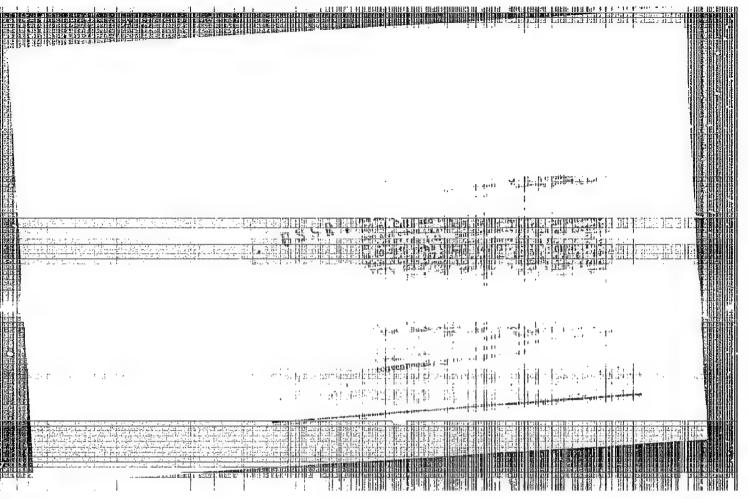
YORCKNOV, 11-C.	
USSR/ Chemistry	"一一一人都不足,我还会的话是随身就想到了那些特殊的,所以我们,我也就是一个我们,我们也没有一个,我们也没有一个一个,我们就是一个一个。""我们,我们就是一个一
	1/1 Pub. 151 - 17/35
Authors :	Dolgov, B. N., Kharitonov, N. P., and Vorenkov, J. G.
litie :	Reaction of trialkylsilanes with alcohols. Synthesis of arialkylalkoxy-silanes and their physical properties
Feriodical :	Zhur, ob. khim. 24, Ri. 7, 1178 - 1188, July 1954
Abetract (	The reaction of R3SiH(R = C2H5, n-G3H7, n-C1H) (tria kyls lanet) with primary, secondary and ternary alcohols in the presence of alkali metal primary, was investigated. The effect of the trialky silane structure, alcohol and atomic number of the metal of the slochdate used as ture, alcohol and atomic number of the metal of the strialky silane alcohol.
	catalyst on the rate of reaction, is explained for the synthesis of
	hol reaction was found to be simple and silves 9 USSR 27 USA, English trialkylalkoxysilanes. Thirty-six references: 9 USSR 27 USA, English and German. Tables.
Institution :	
Submitted:	

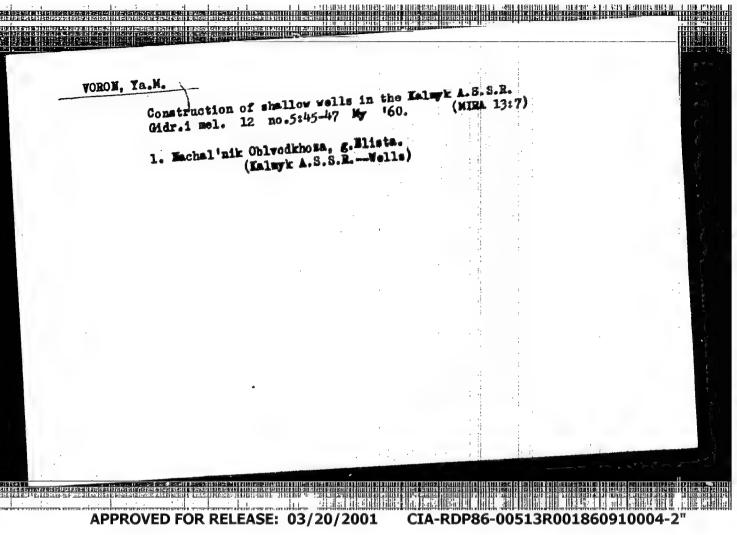


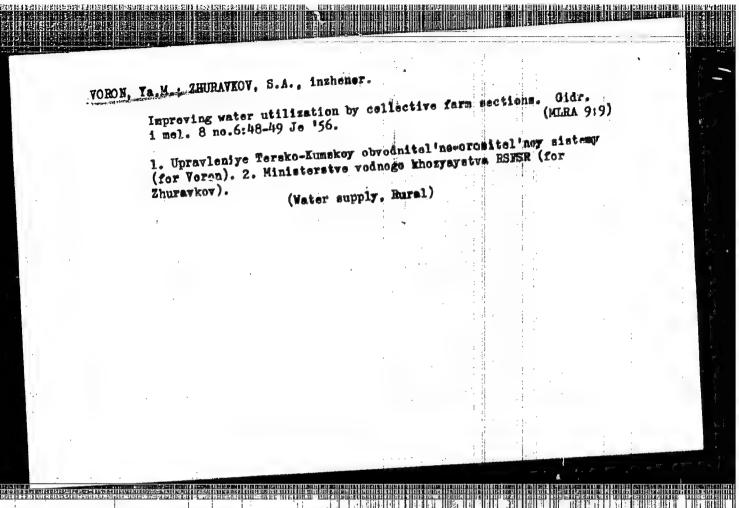
USSR/Electronics - Gas Discharge and Gas Discharge Instruments H-7 : Referat Zhur - Fizika, No 5, 1957, 12371 Abs Jour Author Vorol'ev, A.V., Tikhodeyev, N.N. Inst Title Physical Simulation of the Characteristics of Gorona Orig Pub Zh. tekhn. fiziki, 1955, 25, No 11, 2008-2010 : Using the balance equations for the positive and negative Abstract ions, and also taking into account the field of the space charge and the boundary conditions, the authors find general similarity criteria for the characteristics of corona' in dc and ac voltages (in the case of a two-conductor system). Biblingraphy, 5 titles. Card 1/1 

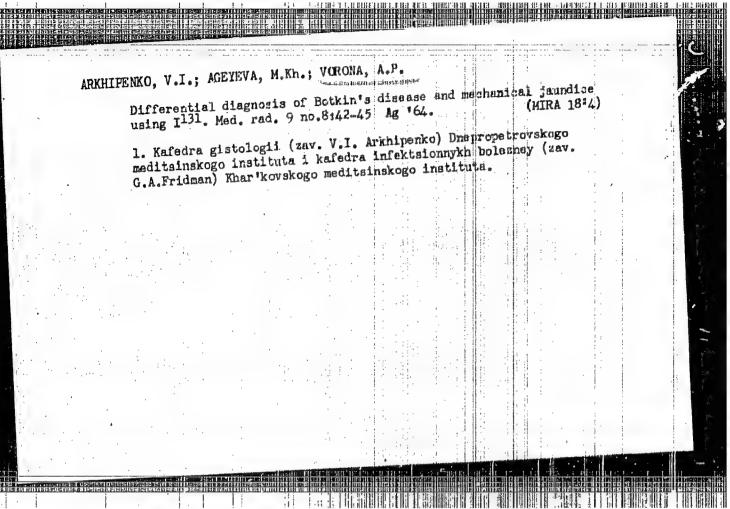


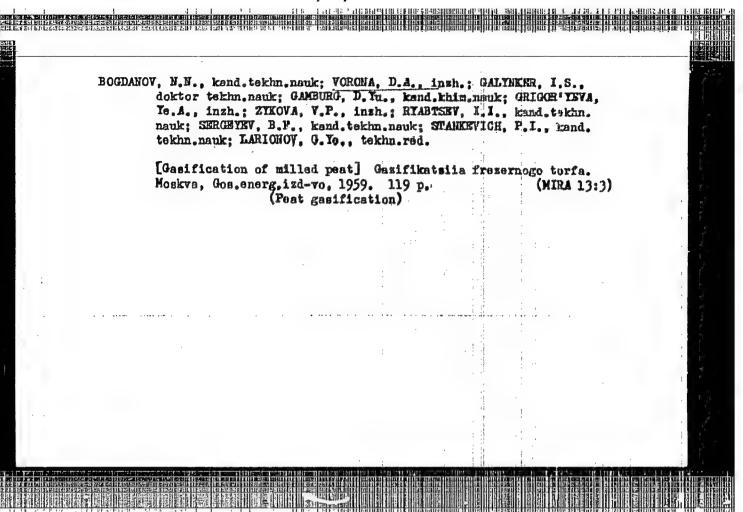
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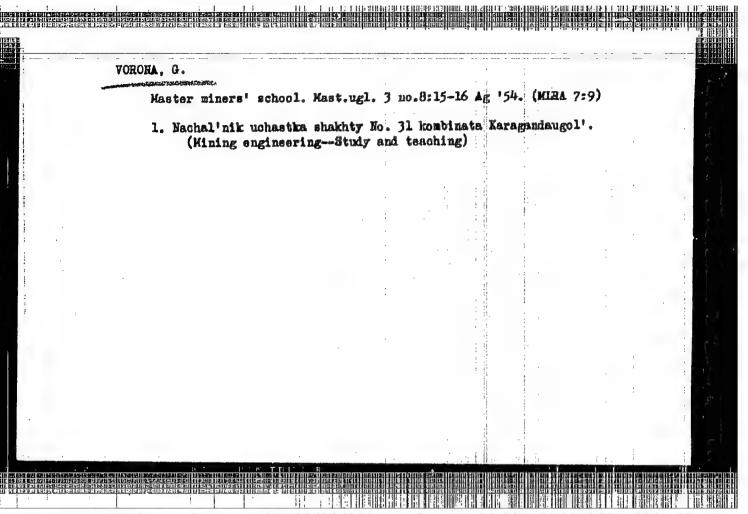




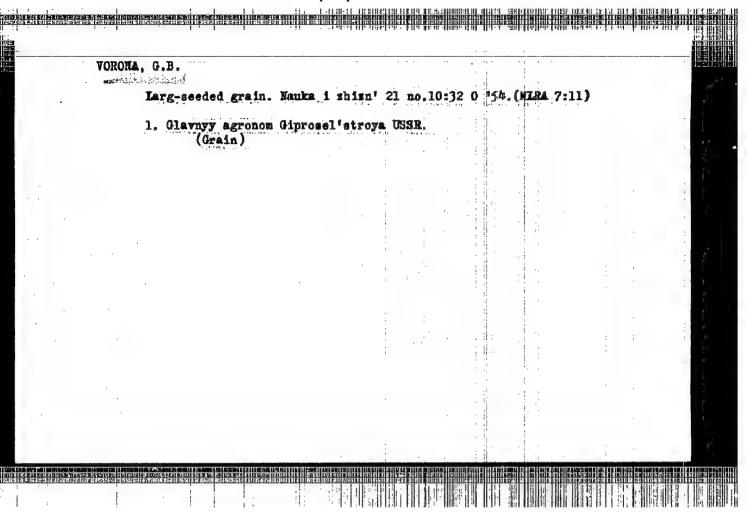


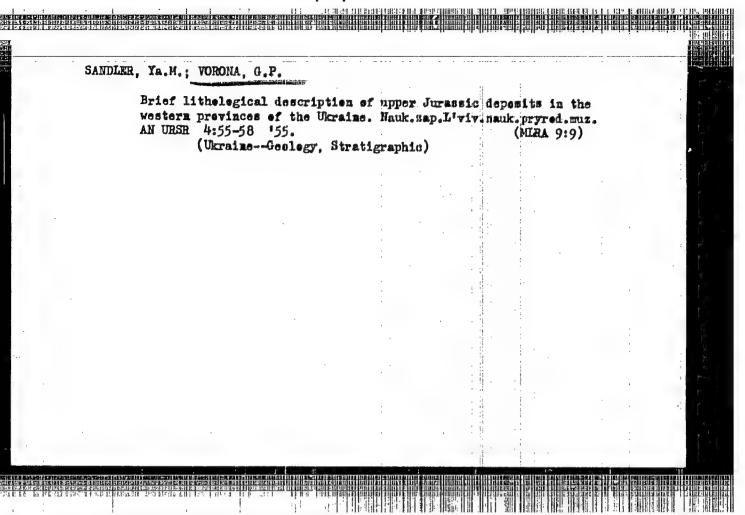






I/AVALID	
YOKONE	
USSR/Agricul	ture - Grain raising
Card 1/1 1	Pub. 77 - 1.6/23
Authors :	Vorona, G. B. Large grains
Periodical :	Nauka i Zhizn' 2'/10, page 32, Oct 1954
Abatract r	An account is given of planting large and small grains in separate fields for comparison, but under equal conditions. It was found that the harvest is
	greatly increased if the seeds are large and of even size and weight. Thus-
Institution :	
Submitted :	





VORCNAYA, G.Yu., klinicheskiy ordinator

Case of hemophilia on ophthalmological practice. Off.zhur. 15 no.7:

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1. Iz glaznoy kliniki (zav. - prof. P.S.Plitas) Klysvskigo ordena
Trudovogo Krasnogo Znameni meditsinskogo instituta ineni akadenika
A.A.Bogomol'tsa.

(HEMOPHILIA)

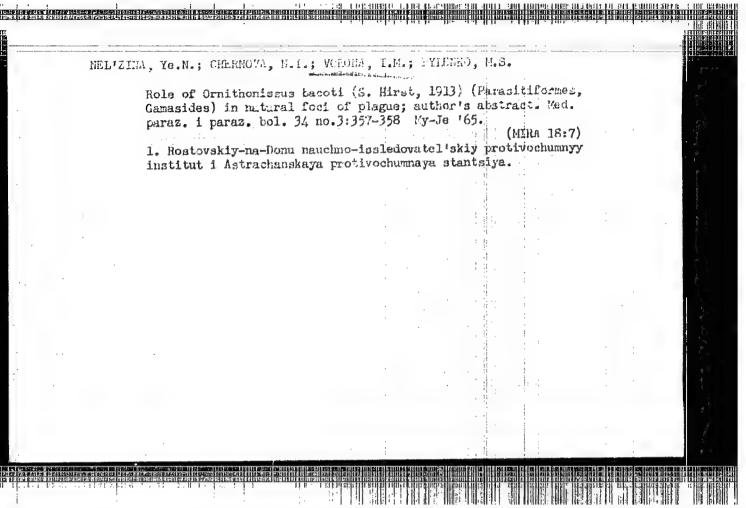
(ETE.-DISEASES AND DEFECTS)

BREDIKHIM, I.S.; KLISHLYKO, V.A.; VORONA, I.D.; GONCHAR, A.G.

Digging prospecting trenches with a D-254 plow-type trench digger. Nazved.i okh.nedr 28 no.3:19-21 Mr 162. (MIRA 15:4)

1. Yuzhno-Yakutskaya kompleksnaya ekspeditsiya Yakutskogo geologicheskogo upravleniya.
(Prospecting---Equipment and supplies)

(Excavating machinery)



# PHASE I BOOK EXPLOITATION

756

' Kirchenko, Andrey Ivanovich, Engineer, and Vorona, Iosif Nammovich, Engineer

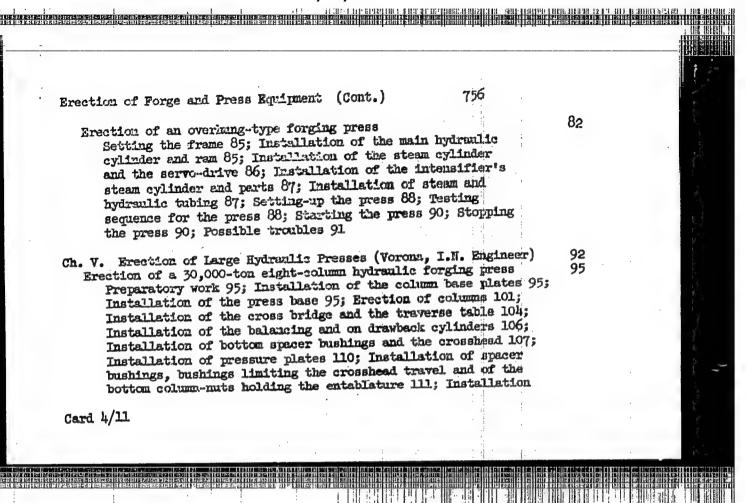
- Montazh kuznechno-pressovogo oborudovaniya; kratkoye spravochnoye posobiye (Erection of Forge and Press Equipment; Brief Reference Aid) Moscow, Mashgiz, 1958. 267 p. 6,000 copies printed.
- Ed. (title page): Yakovlev, V.N., Engineer; Ed. (inside book): Vorona, I.N., Engineer; Ed. of Publishing House: Tsopin, K.G.; Tech. Ed.: Tikhanov, A.Ya.; Managing Ed. for information literature (Mashgiz): Krylov, V.I., Eugineer.
- PURPOSE: The book is intended for engineers and technicians of machine-building plants and of agencies with erection departments.
- COVERAGE: The book gives the mechanical characteristics of various forge and press equipment. Basic information on erecting pneumatic forging hemmers, crank presses, hydraulic and steam presses, pump and accumulator units and some suggestions on their adjustment and setting into operation are presented. No personalities are mentioned. There are 7 references, all Soviet.

Card 1/11

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Ch. II. Determining Man-hours Required for Erection a log the Number of Men Required (Vorona, I.N., Determination of man-hours required for execution and	al Espanata	3	State of the state
Determination of number of men required for exection we	Mediliner) ri:	6 6 15	
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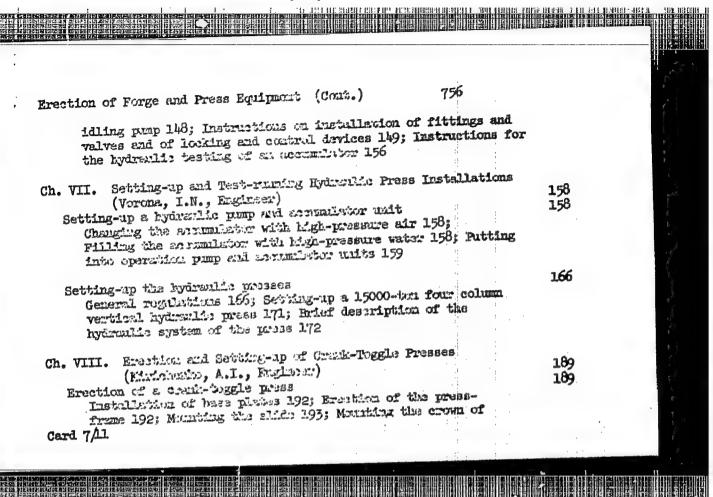
756

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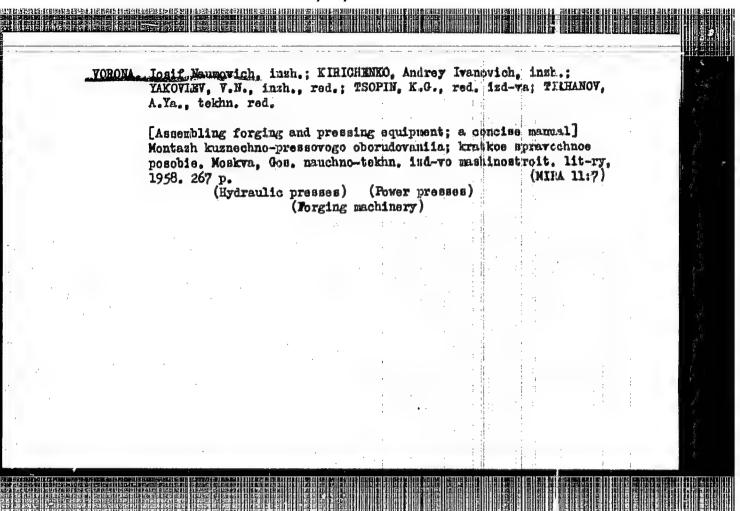


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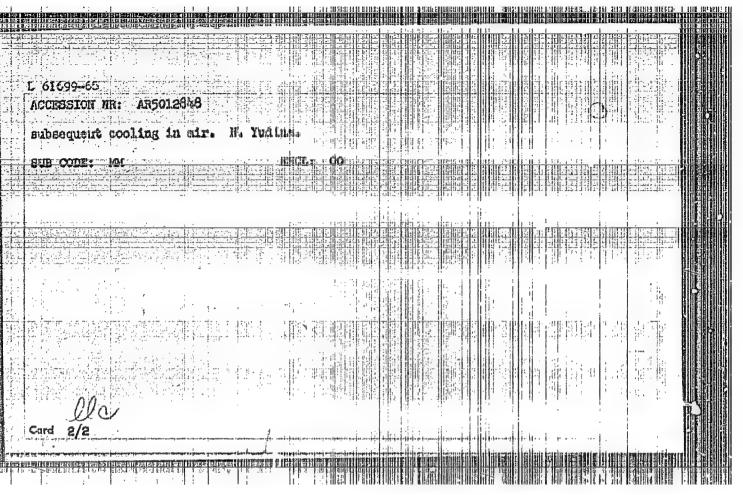
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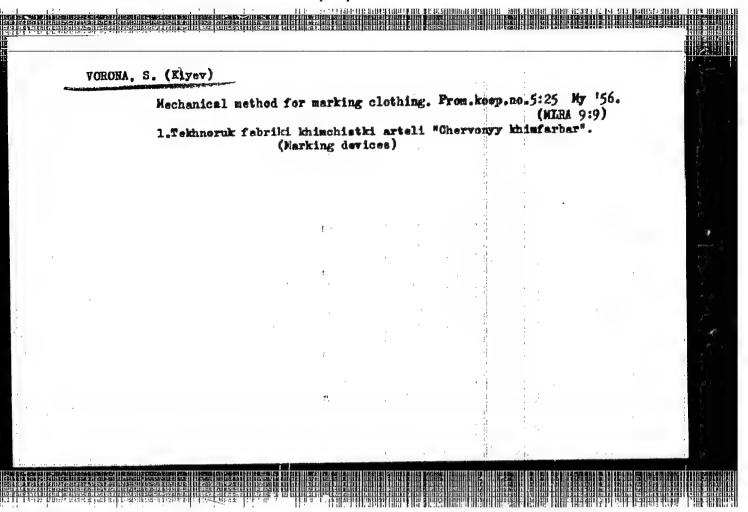
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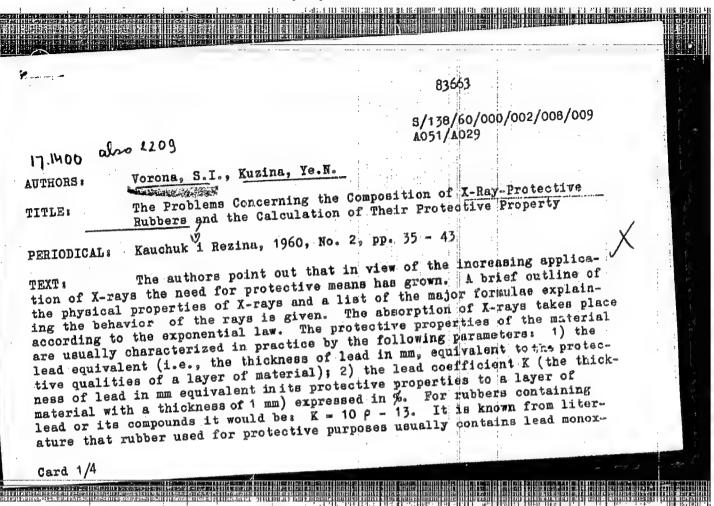


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SOURCE: Ref. zh. Metallurgiya, Aba. 31202	
AUTEOR: Plyatskovskiy, O. A.; Nujerev, V. H.; Parlovskiy, H. W.; Vordar, M. M.;	
Lezinskaya, Ye. Ya.	
TIME: Production of tubes from /P27 steel	al way
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The Problems Concerning the Composition of X-Ray-Protective Rubbers and the Calculation of Their Protective Property

ide as a filler (Refs. 6,7,9). The disadvantages of this filler lie in its tendency to combine with the sulfur during the vulcanization process, causing a darkening of the vulcanizate. The latter also have a low aging resistance when containing lead monoxide in the presence of high doses of sulfur. The authors suggest that butadiene-styrene rubber be used for better resistance to gamma- and X-radiation. The main purpose of this work was to inprove the quality of X-ray protective rubber and to discover new fillers which would replace the toxic and scarce lead monoxide. Three paths were followed in the investigations: a) a study of the X-ray protection fillers and softeners, b) a study of the effectiveness of a combined application of fillers, c) a study of the expediency of using multi-layer X-ray protective rubber. The first two points are discussed in the present article. The results showed that pressing vulcanization does not increase the protective properties of rubber contrary to existing opinions. A series of fillers, 15 containing elements with a relatively high atomic number, were investigated as to their effect on the lead coefficient. It was established that the

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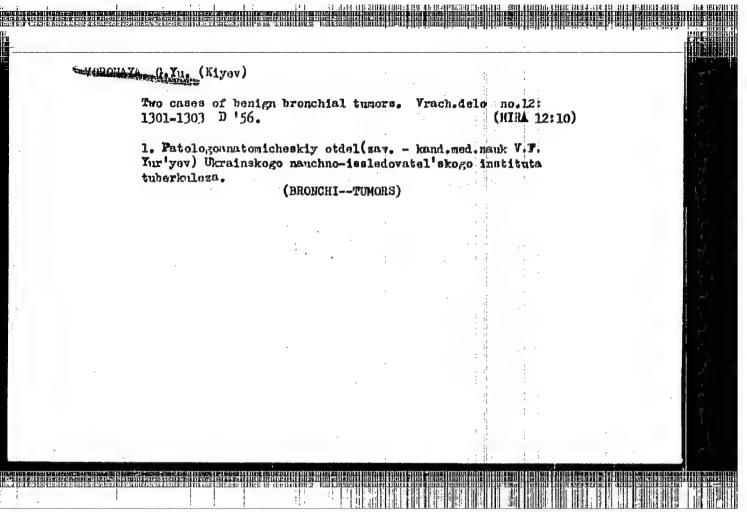
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The Problems Concerning the Composition of X-Ray-Protective Rubbers and the Calculation of Their Protective Property

lead coefficient of fillers introduced into the rubber mixture in equal volumetric concentrations, decreases with the decrease of the atomic number of the corresponding active elements (see Table 2). This agress with the absorption law of X-rays. The concentration of the fillers was also studied After deriving several Formulae (8 - 13), the following conclusions could be drawn: 1) the lead coefficient of rubber filled with lead monoxide is numerically equal to the volumetric concentration of the lead in the rubber, 2) the lead coefficient of the rubber is a linear function of the volumetric concentration of the lead monoxide contained therein. Experimental results shown in Table 3 confirm the validity of these conclusions. The calculations show that the greater is the concentration of the filler, the less the weight of a unit area of the X-ray protection plate at a constant lead equivalent. Upon investigating the effectiveness of applying a mixed filler it was found that in all cases, except the one where the rubber contains lead monoxide with chalk, the lead coefficient in the combined application of fillers does not change additively, which is an anomaly of the law of absorption of X-rays. According to the authors no physical explanation can be Card 3/4



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The Problems Concerning the Composition of X-Ray-Protective Rubbers and the Calculation of Their Protective Property

given for this phenomenon. The greatest decline from the law of absorption, was found in the mixture of lead monoxide with barium sulfate (Fig. 4). 5 Based on experimental results a composition was developed for the NG-405 (PV-405) type rubber. It is pointed out that in industry barium sulfate can be substituted by ground barium oxide. The method for computing the lead coefficient of rubber containing lead monoxide combined with other fillers is outlined in detail. There are 4 tables, 8 figures and 13 references: 3 Soviet

ASSOCIATION:

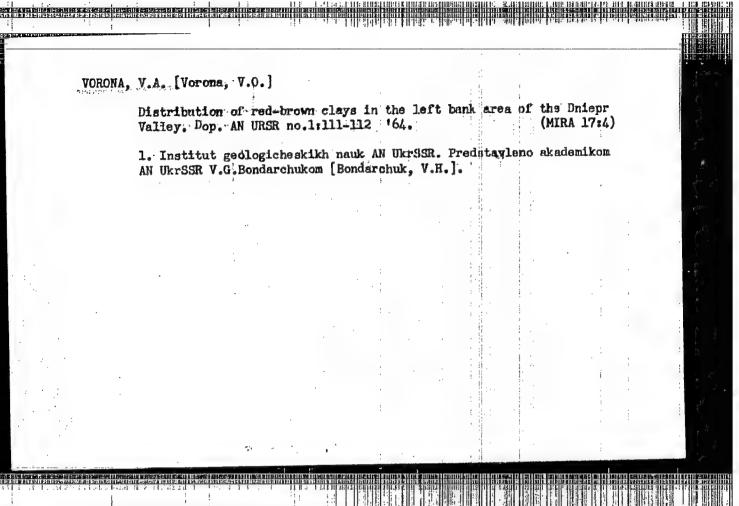
Nauchno-issledovatel'skiy institut rezinových i lateksnykh izdeliy (Scientific Research Institute for Rubber and Later Products)

Card 4/4

VORONA, V.A. [Vorona, V.O.]

Conditions governing the occurrence of redish-brown clays in the left area of the Dnieper Valley. Dop. AN URSR no.11:1517-1519 '64. (MIRA 18:1)

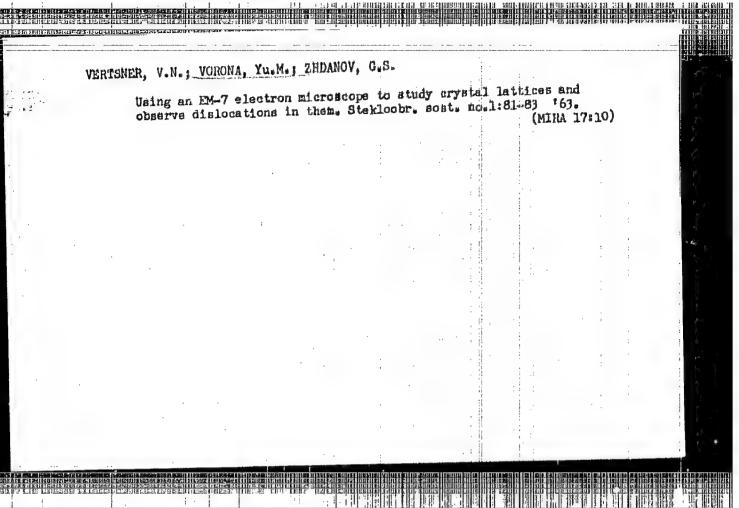
1. Institut geologicheskikh nauk AN UkrSSR. Predstavleno akademikom AN UkrSSR V.G. Bondarchukom [Bondarchuk, V.H.].

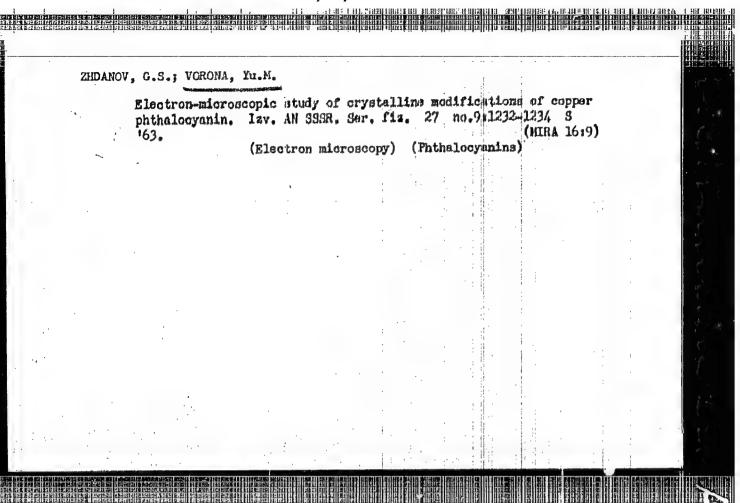


VORONA, Yu.M.; VERTSHER, V.N.

Use of a doubly focusing electromagnetic lens in producing electron diffraction micropatterns. Dokl. AN SSER 165 no. 1261-62 N 165. (MIRA 18:10)

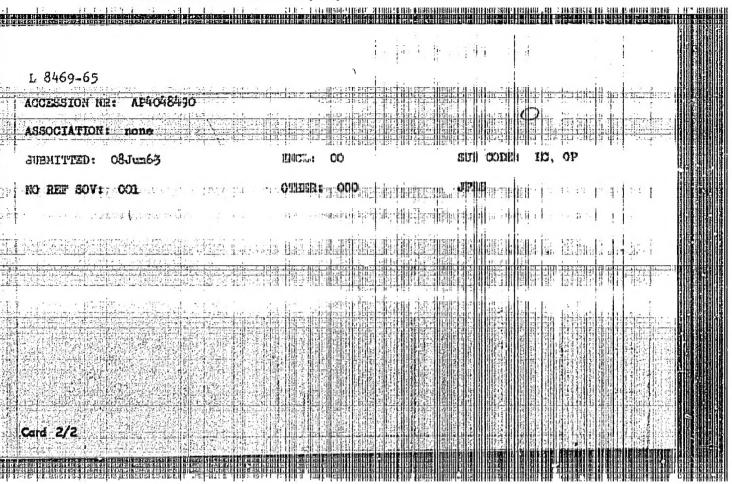
1. Submitted March 22, 1965.

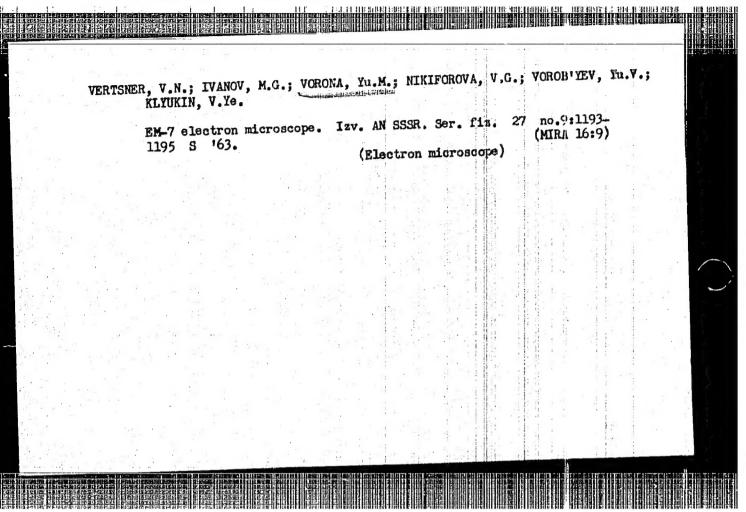




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1. 8469-65 AFTC(b)/SED/ASD(e)-5/45(dx)-2/AFWE/BSI(ES)/LSD(C)/ELM(5)
8/C109/IA/CCE MOS/ NRS/1443
AUTHOR: Ventener, V. II.: Vorona Vin II.
TITLE: Resolution and dispersion of the EN-5 and EN-7 cleature electron diffraction studies
Esóurer Francisco de la companya de
copic TAGS: electron microscope, diffraction analysis, misrodi fraction, sicroscope, diffraction/is-5 microscope, diffraction/is-5 microscope, diffraction, intermediate lens, electron diffraction/is-5 microscope, diffraction, intermediate lens, electron diffraction/is-5 microscope, diffraction, intermediate lens, electron diffraction/is-5 microscope, diffraction
sicroscope
scopes in a regime of micro- the electron spot on the photograph of plats side
of the interplanar difference of firection; the model of the case of nicro-diffraction; the mark of the case of nicro-diffraction; the
ma/A. In the case of nicro-diffraction, the reaction and seen to 1000.  atricted by the astignation of the interesting a local and seen to 1000.  There are four figures and one tables the bibliousantly contains insertion.

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#### CIA-RDP86-00513R001860910004-2

**E2198** 

S/051/62/013/004/019/023 E032/E514

24.3300

Vertsner, V. .. , Vorona, Yu. M. Land Zhdanov, G.S.

AUTHORS: TITLE:

Observation of the crystal lattice with the 3M-5

(EM-5) electron microscope

PERIODICAL: Optika i spektroskopiya, v.13, no.4, 1962, 605-607

It is noted that observations of crystal faces are TEXT: usually carried out with complicated instruments with a resolution of 10 % or better. Although the microscope EM-5 has a nominal resolution of 20 %, its electron-optical parameters are such that it is possible, in fact, to obtain a resolution of the order of In view of this, the authors decided to use it to repeat the observations of Menter (Proc. Roy. Soc., A236, 119, 1956) and Bassett, Menter and Pashly (froc. Roy. Soc., A246, 345, 1958; J. Phot. Sci., 7, 60, 1959). The condensing and intermediate lenses incorporated a fixed magnetic stigmator from the EM-7 The magnification was X5500 or X6700 at an acceleramicroscope. A figure is reproduced showing the microting voltage of 60 kV. photograph of a copper phthalocyanin crystal in which the (001) planes, which are at a distance of 12.6 %, are clearly resolved. Card 1/2

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Observation of the crystal lattice ... S/051/62/013/00%/019/025 E032/3514

The (201) planes, 9.8% apart, are also clearly resolved in another photograph. The fact that the EM-5 is capable of a 10-12% resolution is therefore confirmed. There are 3 figures and 1 table.

SUBMITTED: May 16, 1962

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